

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address COMMISSIONER FOR PATENTS
PO. Ben 1450
Alexandria, Vignina 22313-1450
www.uspio.gov

A PRI ICA TIONI NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/019,380	12/27/2001	Frans Eduard Janssens	JANS-0026	6297
	7590 07/14/2003		EXAMINER HARTE KAHSAY	
Philip S John Johnson & Johnson				
New Brunswick, NJ 08933-7003			ART UNIT	PAPER NUMBER
			1624 DATE MAILED: 07/14/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

·		Application N	. Applicant(s)			
	- -	10/019,380	JANSSENS ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Kahsay Habte	. Ph. D. 1624			
	The MAILING DATE of this communication a	ppears on the cov	er sheet with the correspondence address			
Dariad for	Penly					
THE M - Extens after S - If the p - If NO p - Failure	RTENED STATUTORY PERIOD FOR REP AILING DATE OF THIS COMMUNICATION ions of time may be available under the provisions of 37 CFR IX (6) MONTHS from the mailing date of this communication eriod for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by state ply received by the Office later than three months after the mail patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, he eply within the statutory and will apply and will exp	ninimum of thirty (30) days will be considered timely. re SIX (6) MONTHS from the mailing date of this communication.			
Status	() Clad on (1,7/02				
1)🛛	Responsive to communication(s) filed on 6	<u>[[17]03</u> . This action is nor	n-final			
2a)□	This action is FINAL . 2b) 🖂	This action is not	formal matters, prosecution as to the merits is			
3)	closed in accordance with the practice und	er Ex parte Quay	formal matters, prosecution as to the merits is the first series, 1935 C.D. 11, 453 O.G. 213.			
	on of Claims	tion.				
4)⊠	Claim(s) <u>1-22</u> is/are pending in the applicat 4a) Of the above claim(s) <u>12-14,16 and 17</u> is	s/are withdrawn f	rom consideration.			
			·			
	Claim(s) is/are allowed.					
	Claim(s) <u>1-11,15 and 18-22</u> is/are rejected.					
7)	Claim(s) is/are objected to.	d/or election real	uirement.			
	Claim(s) are subject to restriction an	Id/Of election requ				
Applicati	on Papers	niner	•			
9)🔀	The specification is objected to by the Exam The drawing(s) filed on $_{}$ is/are: a) \Box a	ccented or b)☐ ób	iected to by the Examiner.			
10)∟∫	The drawing(s) filed on is/are. a)_ a Applicant may not request that any objection t	o the drawing(s) be	held in abeyance. See 37 CFR 1.85(a).			
	Applicant may not request that any objection to The proposed drawing correction filed on	is: a)∏ app	roved b) disapproved by the Examiner.			
11)	The proposed drawing correction filed on If approved, corrected drawings are required i	in reply to this Offic	e action.			
	If approved, corrected drawings are required to	e Examiner.				
	The oath or declaration is objected to by the	J				
Priority	under 35 U.S.C. §§ 119 and 120	rojan priority und	or 35 U.S.C. § 119(a)-(d) or (f).			
	Acknowledgment is made of a claim for for	reign priority und	,, 00 0.3.0.3			
a	N⊠ All b) Some * c) None of:		roceived			
	1. Certified copies of the priority docum	nents have been	received in Application No			
	2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage					
	3. Copies of the certified copies of the application from the International See the attached detailed Office action for a second control of the certified copies of the action for a second control of the certified copies of the certified copies of the certified copies of the application from the certified copies of the application from the International Copies of the certified copies of the application from the International Copies of the certified copies of the application from the International Copies of the certified copies of the application from the International Copies of the certified copies of the application from the International Copies of the attached detailed Office action for a copies of the certified	al Bureau i Pui i n	ME 17.2(011:			
*	See the attached detailed office action for dor	nestic priority und	der 35 U.S.C. § 119(e) (tó a provisional application)			
1 .	Acknowledgment is made of a claim for dollar) The translation of the foreign languag Acknowledgment is made of a claim for dollars.	e provisional app	lication has been received.			
		mesuc priority an	20. 00 0.0.0. 00 ==			
Attachme			4) Interview Summary (PTO-413) Paper No(s)			
2/ 🗌 🗤	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-94 ormation Disclosure Statement(s) (PTO-1449) Paper N	18)	Notice of Informal Patent Application (PTO-152) 6) Other:			

Art Unit: 1624

DETAILED ACTION

1. Claims 1-22 are pending.

Election/Restriction

2. Applicant's election with traverse of Group V, Claims 1-11 (in part), 15 (in part) and 18-21 (in part) in Paper No. 9 is acknowledged. The traversal is on the ground(s) that the groups of inventions are related to a single general inventive concept, and thus the lack of unity is improper. The examiner disagrees with applicants. The technical features of Groups I-IX differ one from the other. For example, the special technical feature of benzimidazoles {-a¹=a²-a³=a⁴- is (a-1)} is different from the special technical features of monoazines fused to imidazoles {-a¹=a²-a³=a⁴- is (a-2), (a-3), (a-4 or (a-5)}. There is no common special technical feature among said inventions. The special technical feature of substituent Q attached to benzoimidazoles or Q attached to monoazines fused to imidazoles are also different one from the other. Note that Q also has special technical features, thus, azepine attached to benzoimidazoles is different than azepine attached to monoazines fused to imidazoles.

The traversal is also on the ground that no lack of unity was made in the international phase. This is not found persuasive because the United Sates Patent and Trademark Office is *not* bound by the lack of unity determination by another International Searching Authority. MPEP 1875 states that whether or not the question of unity of invention has been raised by the International Searching Authority, it may be considered by the examiner when serving as an authorized officer of the International

Art Unit: 1624

Preliminary Examining Authority. Thus, the Examiner is not bound by any previous determination made. In addition, 37 C.F.R. 1.484 indicates that the international preliminary examination is a non-binding opinion. Finally, 37 C.F.R. 1.499 states that, if the Examiner finds that a national stage application lacks unity of invention under 37 C.F.R. 1.475, the Examiner may in an Office action require the applicant in the response to that action to elect the invention to which the claims shall be restricted. Thus, the determination of lack of unity is proper under the PCT treaty. In regard to the argument that Groups I –IX do not cover all of the subject matter, the examiner disagrees with applicants. During a telephone conversation with Ms. Wendy Choi on June 3, 2003, the examiner indicates that Q = non-heterocyclic ring will include b-1- b3, b-4 when Y1 is C, and b-5 and b-7 when Y1 is C.

Note that Group IX is drawn to others include metal complex, quaternary amine, N-oxide, any heterocyclic ring in b4, e.g. Y1 = N and u =1-2 etc). "Others" will include compounds that don't fall into Groups I-VIII.

The requirement is still deemed proper and is therefore made FINAL.

The claims are drawn to multiple inventions for reasons set forth in the restriction 3. requirement. The claims are examined only to the extent that they read on the elected invention. Cancellation of the non-elected subject matter is recommended in response to this Office Action.

Art Unit: 1624

Abstract

This application does not contain an abstract of the disclosure as required by 37
 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 9 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. There has been recited a method of treating viral infection in general, but the specification is not enabled for such a scope.

Viral infection is very broad, since the origin and nature viral infections vary one from the other. Viral infections can be categorized in 4 subgroups:

Slow viral infection is viral infections in which the infectious agents gradually increase in number over a very long period of time during which no significant symptoms are seen.

Examples include AIDS (caused by HIV-1 and HIV-2) and certain lentiviruses that cause tumors in animals. Although not viruses, prions also cause slow infections.

Art Unit: 1624

Acute virus infection is a viral infection of relatively short duration with rapid recovery.

Most viruses that infect humans, such as those that cause routine respiratory infections (e.g., cold viruses, influenza viruses) and gastrointestinal infections (e.g., Rotaviruses, Norwalk virus), cause acute infections.

Page 5

Chronic viral infection is a viral infection where the virus can be demonstrated in the body at all times and the disease may be present or absent for an extended period of time. Examples include hepatitis B (caused by HBV) and hepatitis C (caused by HCV).

Latent viral infection is a viral infection where the virus remains in equilibrium with the host for long periods of time before symptoms again appear, but the actual viruses cannot be detected until reactivation of the disease occurs. Examples include infections caused by HSV-1 (fever blisters), HSV-2 (genital herpes), and VZV (chickenpox-shingles).

Since viral infections are extremely diverse in nature, it is impossible to treat all viral infections.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Art Unit: 1624

Claims 1-11, 15 and 18-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention:

- a. Claim 1 and claims dependent thereon are rejected because the he phrase "wherein =Z is =O, =CH-C(=O)-NR^{5a}R^{5b}, .." is not clear. What is the significance of the double bond in front of variable Z? Does applicants intend to claim ==O or just =O? If the latter is true, applicants have to delete the double bonds from the definition of variable Z. It is recommended that the claim reads "wherein Z is O, CH-C(=O)-NR^{5a}R^{5b}, CH₂.." to overcome the rejection.
- b. In claim 8, "compound 75" is redundant since applicants recited the compound.
- c. In claim 8, the nomenclature of species includes [(A), (S)] or [(B), (S)], but it is unclear what "A" and "B" represent? What are the notations [(A)..] or [(B)..] represent in the nomenclature?

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kahsay Habte, Ph. D. whose telephone number is (703) 308-4717. The examiner can normally be reached on M-F (9.00AM- 5:30PM).

Art Unit: 1624

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mukund Shah can be reached on 703-308-4716. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Kahsay Habte, Ph. D. Examiner Art Unit 1624

KH July 11, 2003 Mukund J. Shah Supervisory Patent Examiner

Art Unit 1624

BRUCK KIFLE, PH.D. PRIMARY EXAMINER